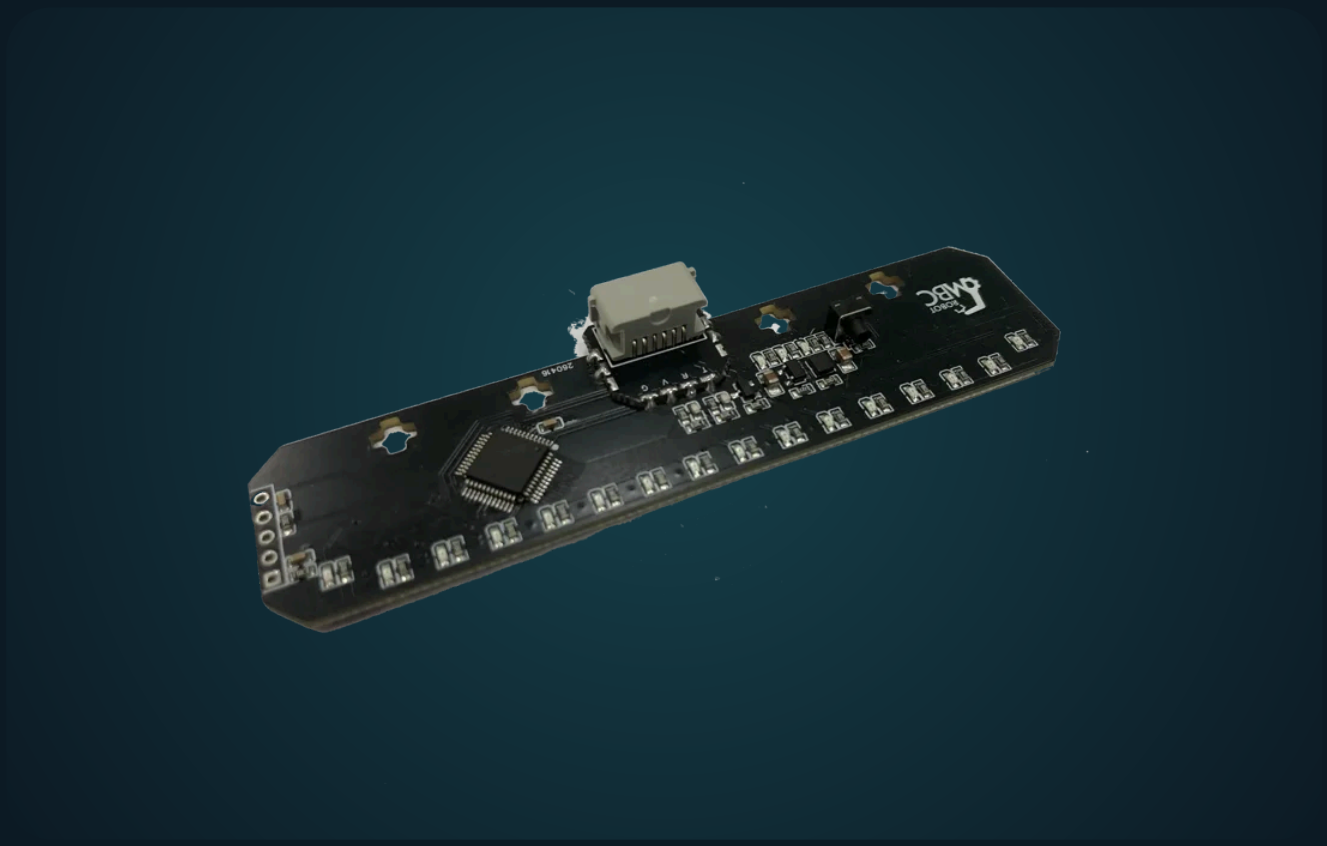
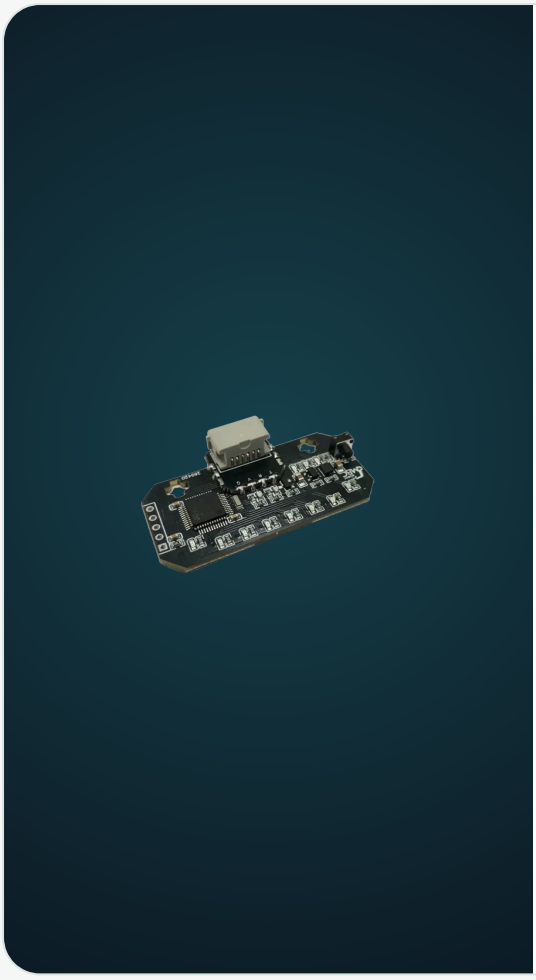
PRODUCT CATALOG 2026

MBC-Pro Sensors

Competition-grade, plug-and-play sensors for LEGO® Education SPIKE™ Prime, MINDSTORMS® EV3 and Arduino. Built for WRO and STEM robotics.



Shaobo Creative Robotics Company Limited (MBC Robot) · Taichung, Taiwan
contactmbcrobot@gmail.com · mbc-pro-sensors.github.io



LNS-08-PRO

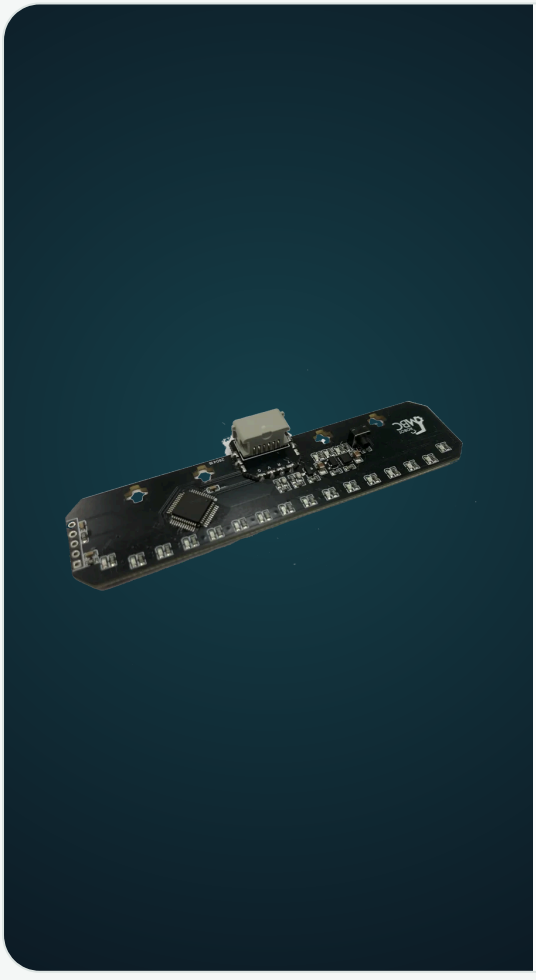
Pathfinder 8-Way

Built for busy WRO maps: 8 channels see exactly where the line is, output a high-resolution position ready for PID, and calibrate with one button.

8	±100	5 s
sensing channels	high-res line position	one-button calibration

Editions: SPIKE · EV3 · Universal I2C

MSRP **US$100** shipping not included



LNS-16-PRO

Pathfinder 16-Way

A 16-channel wide view: stays on the line through fast turns, detects intersections automatically, and uses just 1 hub port.

16	1 port	Auto
sensing channels	on your hub	fork & intersection detection

Editions: SPIKE · EV3 · Universal I2C

MSRP **US$120** shipping not included



TOF-02-LSR

Ranger 2-Way

Faster and smaller than ultrasonic: two laser points measure left and right at once, so you know which side an object left from.

2	120 cm	L / R
laser points	range	exit direction

Editions: SPIKE · EV3 · MakeBlock

MSRP **US$60** shipping not included



TOF-08-LSR

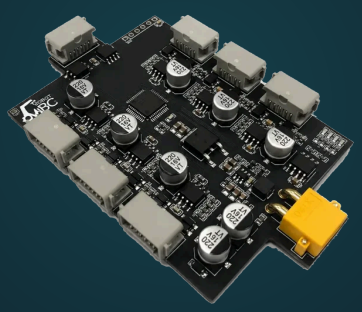
Ranger 8-Way

8 laser points cover 180° in front: it tells you which direction the nearest target is and how far — no more ultrasonic ghosts in sumo and obstacle avoidance.

180°	8	17
field of view	laser points	bearing steps

Editions: SPIKE · EV3 · Universal I2C

MSRP **US$120** shipping not included



EXP-06-PRO

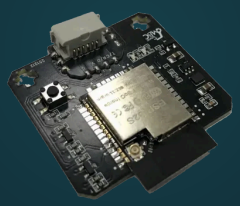
MBC EXP6 6-Port Motor Expander (for LEGO® SPIKE™)

Out of ports on SPIKE Prime? Run 6 motors and sensors from one port, with its own isolated power and on-board motor PID.

1 → 6	PID	Isolated
ports	on-board motor control	power protects your hub

Editions: Official SPIKE App · Pybricks · Robot Inventor App

MSRP **US$145** shipping not included



CMD-BT-PRO

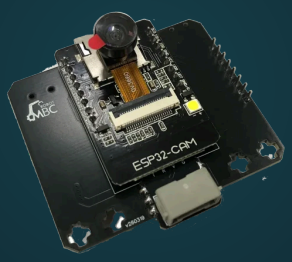
Controller PS4/PS5

Works with PS4 and PS5 gamepads: bonds to your gamepad only and stops the moment the signal drops — no interference even with dozens of teams around.

2	0.3 s	30 s
gamepad types: PS4 & PS5	stop on signal loss	quick pairing

Editions: SPIKE · EV3 · Universal I2C

MSRP **US$100** shipping not included



CAM-VIS

SharpShot Vision

One camera, five jobs, switched in the camera menu: color tracking (up to 16 colors), color at points, color order, line following and object detection (color + shape). Set it all up on the 1.8" screen, no computer needed.

5	16	SPIKE + EV3
camera modes	colors tracked	hardware-verified

Editions: Official SPIKE App · Pybricks · Robot Inventor App · EV3 (LEGO firmware, Pybricks)

MSRP **US$120** shipping not included

Coming soon

IMU-9AX

IMU 9-Axis Gyro

The key to driving straight and turning precisely: correct heading at any mounting angle, and compass fusion that does not drift over long runs.

9-axis	Any angle	No drift
gyro + accel + mag	mounting	compass-fused heading

Editions: EV3 · SPIKE · Universal I2C

MSRP **US$100** shipping not included

Price List (USD per unit)

Product	MSRP
Pathfinder 8-Way	100.00
Pathfinder 16-Way	120.00
Ranger 2-Way	60.00
Ranger 8-Way	120.00
MBC EXP6 6-Port Motor Expander (for LEGO® SPIKE™)	145.00
Controller PS4/PS5	100.00
SharpShot Vision	120.00
IMU 9-Axis Gyro	100.00

Prices are manufacturer's suggested retail prices in US dollars, shipping not included. In countries with an authorized distributor, please order from the local distributor. Distributor pricing and terms: mbc-pro-sensors.github.io/en/distributors.html

Quotes, orders and distributor enquiries

contactmbcrobot@gmail.com

WRO rules check, buying guide and full English documentation:

mbc-pro-sensors.github.io

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